Secure Data Management with Keystone and XQ

Zero Trust Data Security Safeguarding HIPAA Data
Simplifying Data Flow for EMR backup and Migration

Challenges

Keystone Technologies needed a cost-effective, cutting-edge security solution for legacy systems, ensuring secure data transfer and comprehensive access logging from on-premises to the cloud.

Due to HIPAA compliance requirements, they had clients seeking data encryption and retrieval in cloud environments.

1. Legacy systems
   - Heightened Data Transfer Liabilities to the Cloud

2. No secure chain of custody for data
   - Opens customer to HIPAA compliance violations related to access, audit and integrity
   - Encryption of sensitive data while allowing archival and retrieval

The Partnership

Keystone Technologies specializes in designing and implementing streamlined healthcare IT infrastructure within AWS technology.

XQ Message ensures data integrity and confidentiality through a seamless zero trust data protection system preserving data integrity and confidentiality.

Powered by Ingram Micro's AWS Healthcare Partner Pathway, Keystone has joined forces with XQ to merge Keystone's proficiency in delivering finely tuned IT infrastructure through AWS with XQ's top-tier data security solutions.

This partnership enables Keystone to provide top-tier AWS infrastructure to healthcare clients and ensures data security during cloud migration using XQ's established product suite to guarantee the security of client data during the migration to the cloud.

Benefits

Affordable secure IT infrastructure for EMR migration and storage on AWS cloud including Epic and Cerner.

›› Automated Secret Control

Minimize data and maintenance expenditures associated with secure data storage, while simultaneously enhancing security and bolstering auditability. Each file is protected with dynamic credentials and policies that are not tied to the AWS environment.

›› Compliance Achievement

Integrity, availability, and confidentiality of ePHI, in line with the recommended safeguards of the HIPAA Security Rule wherever the data goes..

›› Zero-Trust Environment

XQ & Keystone elevates data transfer and storage to zero trust data access (ZTDA) by microsegmenting and encapsulating your data to control access both inside and outside your network, application or cloud.

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Solutions

>> **Data transfer from onsite to cloud environments**

XQ Data Transfer is a cloud-based solution for Zero Trust Data Access (ZTDA) that encapsulates your data and also delivers unparalleled security for seamless site-to-site connectivity.

XQ's Zero Trust Data technology ensures customer control over encryption keys, maintains a forensic chain of custody, and offers data sovereignty. It enables secure data migration, geofencing, and protection across diverse networks with a detailed audit trail.

This end-to-end security setup generates comprehensive logs to accompany the data transmission process, which can be provided to clients to ensure compliance.

>> **Secure sensitive data stored on the EBS volumes**

Deploying **XQ's Data Vault** solution directly onto the EMR Platform's EC2 instances ensures data integrity and maintains comprehensive access logs for sensitive data.

XQ enhances AWS by providing secure data custody, geo-fencing, and access policy enforcement for data sovereignty. This complements AWS Sovereign Cloud and simplifies compliance, aligning with the Shared Responsibility Security Model.

>> **Compliance Strategy**

Keystone's clients entrust them with the most sensitive and confidential health data. XQ data rights management (DRM) crosses boundaries between environments and creates a unique secure chain of custody for each data object.

The chain of custody generated meticulous logs ensuring that Keystone's clients can attain the most stringent compliance standards.

>> **Results**

Keystone's clients achieve a higher level of compliance proof and may achieve a cost reduction of up to 40% compared to their on premise storage.
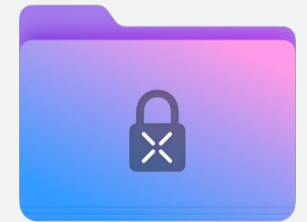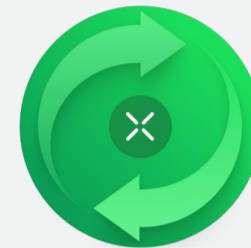
Features

Data Encapsulation

XQ microsegments and encrypts data during transfer, meticulously tracking and controlling access at every stage of data's journey.

Remote Data Control

Turn exfiltrated data into digital dust by destroying or suspending keys.

Data Sovereignty

Data access controls (DAC) and Data Loss Prevention (DLP) policies enforce jurisdictional policies and geofence data access.

Simple Compliance

XQ is built on the NIST standard and provides proof of secure chain of custody for each data object for global compliance standards.

Ransomware

Reduce your blast radius to one. Data access credentials are unique to each data object.

Visit AWS Marketplace or XQ Message to purchase or start a Free Trial today. >>

Get started with XQ solutions on AWS

aws Qualified Software

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